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For centuries, we have known that our dynamic universe is adorned by cosmic fireworks: energetic and ephemeral beacons of light from a single star that are a million (nova) to a billion (supernova) times brighter than our sun. However, it had been an age-old conundrum that the brightest nova is approximately 1000

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times fainter than the faintest supernova; why should nature leave such a wide "gap"? In search of an answer, I undertook three systematic surveys for my thesis. Since I was looking for transients fainter, faster and rarer than supernovae, I focused my search on galaxies in the local universe. We now have convincing

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evidence of multiple, distinct populations of rare transients bridging this "gap."

Perhaps, we are witnessing new stellar physics- shell detonations in ultra-compact white dwarf binaries, electron-capture supernovae, white dwarfs collapsing into neutron stars and birth of black-holes. A small number of intensively followed-up

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discoveries of elusive transients sets the stage for population studies with the upcoming "Large Synoptic Survey Telescope." This effort works towards building a complete inventory of transients in the local universe (d

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